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Potential contribution of epithelial Na channel to net secretion of **aqueous humor**

MM Civan, K Peterson-Yantorno, J Sanchez- ... - J Exp ... , 1997 - interscience.wiley.com

... body RNA a 3.7-kb transcript corresponding to the -subunit of the **amiloride**-sensitive, -ENaC ...

We have also found that the Na⁺ -channel inhibitor **benamil** inhibits the RVI ... Na⁺ channel is activated by shrinkage and contributes to unidirectional reabsorption as **aqueous humor**. ...

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Role of ion channels in **aqueous humor** formation

TJ Jacob, MM Civan - American Journal of Physiology- Cell ... , 1996 - Am Physiological Soc

... INa(TTx), tetrodotoxin-sensitive, voltage-gated Na⁺ channel; INa(hil), epithe- lial, **benamil**-sensitive Na⁺ channel. ... posterior chamber of the eye and have been hypoth- esized to be the rate-limiting factor in the formation of the **aqueous humor** (32). ...

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[CITATION] Ion transport across the ciliary epithelium: lessons from cultured cells ...

M Wiederholt, H Helbig, C Korbmacher - ... Held in Spoleto, Italy in March ... , 1990 - Wiley-VCH

[Cited by 43](#) - [Related articles](#)

... agonists on intraocular pressure and **aqueous humor** dynamics in cynomolgus ...

B TIAN, BANNT GABELT, CE CROSSON, PL ... - Experimental eye ... , 1997 - Elsevier

... receptor agonists (R)-phenylisopropyladenosine (R-PIA) and N 6 -cyclohexyladenosine (CHA) on intraocular pressure (IOP), **aqueous humor** flow (AHF) and ... The relatively selective adenosine A 2 antagonist 3,7-**dimethyl**-1-propargylxanthine (DMPX, 320 µg) inhibited the early ...

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Mechanism of steroid action in ocular inflammation: inhibition of prostaglandin ...

N Floman, U Zor - Investigative Ophthalmology & Visual Science, 1977 - ARVO

... 7.4, containing glucose (1 mg. per milliliter) and 0.5 per cent **DMA**. Results. In vivo studies. Prostaglandin E was undetect- able in **aqueous humor** of intact rabbit eye (less than 0.1 ng. per milliliter). Following paracentesis of the ...

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Tissue plasminogen activator activity in human **aqueous humor**

DM Smalley, JE Fitzgerald, DM Taylor, RE Cone, ... - ... ophthalmology & visual ... , 1994 - ARVO

... To distinguish t-PA from u-PA plasminogen activator, activity levels were measured in the absence of soluble fibrin (— soluble fibrin) and in the presence of **amiloride** (+ amilo- ride) in randomly selected **aqueous humor** samples (AH #1, AH # 2, AH *3).The measured activity in ...

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... applied aminocaproic acid concentrates in the **aqueous humor** of the rabbit in ...

R Allingham, PB Williams, ER Crouch ... - Archives of ... , 1987 - archophth.highwire.org

... This is believed to be secondary to its calcium-chelating effect on intercellular matrices.11 However, it did not increase penetra- tion of aminocaproic acid; **aqueous humor** aminocaproic acid levels using this agent were undetectable. **Dimethyl** sulfoxide has been used to ...

[Cited by 11](#) - [Related articles](#) - [All 4 versions](#)

Transport components of net secretion of the **aqueous humor** and their integrated ...

MM Civan - The Eye's Aqueous Humor: From Secretion to ..., 1998 - books.google.com

... Participation of an **amiloride**-sensitive epithelial Na⁺ channel in the RVI is unusual in nonrenal ...

At the same concentration, **benzamil** had no effect on aliquots of the same cells in ... Na⁺ may also enter NPE cells from the **aqueous humor** through a cation-nonselective channel that ...

Cited by 25 - Related articles - All 2 versions

[CITATION] ..., distribution and elimination of labeled **dimethyl** sulfoxide in man and ...

KH Kolb, G Jaenicke, M Kramer, PE ... - Annals of the New York ..., 1967 - ncbi.nlm.nih.gov

... Mesh Terms: Animals; **Aqueous Humor**/analysis; Autoradiography; **Dimethyl** Sulfoxide/blood; **Dimethyl** Sulfoxide/metabolism*; **Dimethyl** Sulfoxide/urine; Dogs; Humans; Injections, Intravenous; Rabbits; Rats; Skin Absorption; Sulfur Isotopes; Tritium. Substances: Sulfur Isotopes; Tritium ...

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Urokinase-type plasminogen activator in human **aqueous humor**

SF Bernaldez, C Tabatabay, D Belin - Investigative ophthalmology & visual ..., 1992 - ARVO

... This PA comi- grated with purified uPA, selectively reacted with an antiserum raised against human uPA, and was inhib- ited by **amiloride**. In agreement with previous re- ports, 910 '

1314 small amounts of tPA also were detected in **aqueous humor**. ...

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